0590
0625

\# 5

OIPE

RAW SEQUENCE LISTING   DATE: 06/26/2002
PATENT APPLICATION: US/10/074,152   TIME: 09:56:47

Input Set : **A:\seqlist.txt**
Output Set: **N:\CRF3\06262002\J074152.raw**

ENTERED

```
 3 <110> APPLICANT: Barker, Christopher A.
 4        Morsey, Mohamad
 6 <120> TITLE OF INVENTION: IMMUNOLOGICAL METHODS TO MODULATE MYOSTATIN IN
 7        VERTEBRATE SUBJECTS
 9 <130> FILE REFERENCE: 9001-0042.01
11 <140> CURRENT APPLICATION NUMBER: 10/074,152
```
C--> `12 <141> CURRENT FILING DATE: 2002-06-14`
```
14 <150> PRIOR APPLICATION NUMBER: 09/252,149
15 <151> PRIOR FILING DATE: 1999-02-18
17 <160> NUMBER OF SEQ ID NOS: 39
19 <170> SOFTWARE: PatentIn Ver. 2.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 1128
23 <212> TYPE: DNA
24 <213> ORGANISM: bos taurus
26 <400> SEQUENCE: 1
27 atgcaaaaac tgcaaatctc tgtttatatt tacctattta cgctgattgt tgctggccca 60
29 gtggatctga atgagaacag cgagcagaag gaaatgtgg aaaaagaggg gctgtgtaat 120
31 gcatgtttgt ggagggaaaa cactacatcc tcaagactag aagccataaa aatccaaatc 180
33 ctcagtaaac ttcgcctgga aacagctcct aacatcagca aagatgctat cagacaactt 240
35 ttgcccaagg ctcctccact cctggaactg attgatcagt tcgatgtcca gagagatgcc 300
37 agcagtgacg gctccttgga agacgatgac taccacgcca ggacggaaac ggtcattacc 360
39 atgcccacgg agtctgatct tctaacgcaa gtggaaggaa aacccaaatg ttgcttcttt 420
41 aaatttagct ctaagataca atacaataaa ctagtaaagg cccaactgtg gatatatctg 480
43 aggcctgtca agactcctgc gacagtgttt gtgcaaatcc tgagactcat caaacccatg 540
45 aaagacggta caaggtatac tggaatccga tctctgaaac ttgacatgaa cccaggcact 600
47 ggtatttggc agagcattga tgtgaagaca gtgttgcaga actggctcaa acaacctgaa 660
49 tccaacttag gcattgaaat caaagcttta gatgagaatg ccatgatct tgctgtaacc 720
51 ttcccagaac caggagaaga tggactgact ccttttttag aagtcaaggt aacagacaca 780
53 ccaaaaagat ctaggagaga ttttgggctt gattgtgatg aacactccac agaatctcga 840
55 tgctgtcgct accccctcac ggtggatttt gaagcttttg atgggattg gattattgca 900
57 cctaaaagat ataaggccaa ttactgctct ggagaatgtg aatttgtatt tttgcaaaag 960
59 tatcctcata cccatcttgt gcaccaagca aaccccagag gttcagccgg cccctgctgt 1020
61 actcctacaa agatgtctcc aattaatatg ctatatttta atggcgaagg acaaataata 1080
63 tacgggaaga ttccagccat ggtagtagat cgctgtgggt gctcatga            1128
66 <210> SEQ ID NO: 2
67 <211> LENGTH: 375
68 <212> TYPE: PRT
69 <213> ORGANISM: bos taurus
71 <400> SEQUENCE: 2
72 Met Gln Lys Leu Gln Ile Ser Val Tyr Ile Tyr Leu Phe Thr Leu Ile
73 1               5                   10                  15
75 Val Ala Gly Pro Val Asp Leu Asn Glu Asn Ser Glu Gln Lys Glu Asn
```

RAW SEQUENCE LISTING   DATE: 06/26/2002
PATENT APPLICATION: US/10/074,152   TIME: 09:56:47

Input Set : **A:\seqlist.txt**
Output Set: **N:\CRF3\06262002\J074152.raw**

```
76              20              25              30
78 Val Glu Lys Glu Gly Leu Cys Asn Ala Cys Leu Trp Arg Glu Asn Thr
79          35              40              45
81 Thr Ser Ser Arg Leu Glu Ala Ile Lys Ile Gln Ile Leu Ser Lys Leu
82      50              55              60
84 Arg Leu Glu Thr Ala Pro Asn Ile Ser Lys Asp Ala Ile Arg Gln Leu
85  65              70              75              80
87 Leu Pro Lys Ala Pro Pro Leu Leu Glu Leu Ile Asp Gln Phe Asp Val
88              85              90              95
90 Gln Arg Asp Ala Ser Ser Asp Gly Ser Leu Glu Asp Asp Asp Tyr His
91          100             105             110
93 Ala Arg Thr Glu Thr Val Ile Thr Met Pro Thr Glu Ser Asp Leu Leu
94          115             120             125
96 Thr Gln Val Glu Gly Lys Pro Lys Cys Cys Phe Phe Lys Phe Ser Ser
97      130             135             140
99 Lys Ile Gln Tyr Asn Lys Leu Val Lys Ala Gln Leu Trp Ile Tyr Leu
100 145             150             155             160
102 Arg Pro Val Lys Thr Pro Ala Thr Val Phe Val Gln Ile Leu Arg Leu
103             165             170             175
105 Ile Lys Pro Met Lys Asp Gly Thr Arg Tyr Thr Gly Ile Arg Ser Leu
106             180             185             190
108 Lys Leu Asp Met Asn Pro Gly Thr Gly Ile Trp Gln Ser Ile Asp Val
109         195             200             205
111 Lys Thr Val Leu Gln Asn Trp Leu Lys Gln Pro Glu Ser Asn Leu Gly
112     210             215             220
114 Ile Glu Ile Lys Ala Leu Asp Glu Asn Gly His Asp Leu Ala Val Thr
115 225             230             235             240
117 Phe Pro Glu Pro Gly Glu Asp Gly Leu Thr Pro Phe Leu Glu Val Lys
118             245             250             255
120 Val Thr Asp Thr Pro Lys Arg Ser Arg Arg Asp Phe Gly Leu Asp Cys
121             260             265             270
123 Asp Glu His Ser Thr Glu Ser Arg Cys Cys Arg Tyr Pro Leu Thr Val
124         275             280             285
126 Asp Phe Glu Ala Phe Gly Trp Asp Trp Ile Ile Ala Pro Lys Arg Tyr
127     290             295             300
129 Lys Ala Asn Tyr Cys Ser Gly Glu Cys Glu Phe Val Phe Leu Gln Lys
130 305             310             315             320
132 Tyr Pro His Thr His Leu Val His Gln Ala Asn Pro Arg Gly Ser Ala
133             325             330             335
135 Gly Pro Cys Cys Thr Pro Thr Lys Met Ser Pro Ile Asn Met Leu Tyr
136             340             345             350
138 Phe Asn Gly Glu Gly Gln Ile Ile Tyr Gly Lys Ile Pro Ala Met Val
139             355             360             365
141 Val Asp Arg Cys Gly Cys Ser
142     370             375
145 <210> SEQ ID NO: 3
146 <211> LENGTH: 60
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial Sequence
```

RAW SEQUENCE LISTING   DATE: 06/26/2002
PATENT APPLICATION: US/10/074,152   TIME: 09:56:47

Input Set : A:\seqlist.txt
Output Set: N:\CRF3\06262002\J074152.raw

```
150 <220> FEATURE:
151 <221> NAME/KEY: CDS
152 <222> LOCATION: (1)..(60)
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Description of Artificial Sequence: MYOS 1 peptide coding
sequence,
156        Figure 2
158 <400> SEQUENCE: 3
159 gga tcc cgt tct cgt cgc gac ttt ggt ctg gac tgc gac gaa cat tct   48
160 Gly Ser Arg Ser Arg Arg Asp Phe Gly Leu Asp Cys Asp Glu His Ser
161  1               5                  10                  15
163 acc gaa aga tct                                                   60
164 Thr Glu Arg Ser
165            20
168 <210> SEQ ID NO: 4
169 <211> LENGTH: 20
170 <212> TYPE: PRT
171 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Description of Artificial Sequence: MYOS 1 peptide coding
sequence,
176        Figure 2
178 <400> SEQUENCE: 4
179 Gly Ser Arg Ser Arg Arg Asp Phe Gly Leu Asp Cys Asp Glu His Ser
180  1               5                  10                  15
182 Thr Glu Arg Ser
183            20
186 <210> SEQ ID NO: 5
187 <211> LENGTH: 51
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence: MYOS 3 peptide coding
sequence,
193        Figure 3
195 <220> FEATURE:
196 <221> NAME/KEY: CDS
197 <222> LOCATION: (1)..(51)
199 <400> SEQUENCE: 5
200 gga tcc tct cgt tgc tgt cgc tat ccg ctg acc gtt gac ttc gaa aga   48
201 Gly Ser Ser Arg Cys Cys Arg Tyr Pro Leu Thr Val Asp Phe Glu Arg
202  1               5                  10                  15
204 tct                                                              51
205 Ser
208 <210> SEQ ID NO: 6
209 <211> LENGTH: 17
210 <212> TYPE: PRT
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Description of Artificial Sequence: MYOS 3 peptide coding
sequence,
215        Figure 3
217 <400> SEQUENCE: 6
```

RAW SEQUENCE LISTING   DATE: 06/26/2002
PATENT APPLICATION: US/10/074,152   TIME: 09:56:47

Input Set : A:\seqlist.txt
Output Set: N:\CRF3\06262002\J074152.raw

```
218 Gly Ser Ser Arg Cys Cys Arg Tyr Pro Leu Thr Val Asp Phe Glu Arg
219   1            5               10               15
221 Ser
225 <210> SEQ ID NO: 7
226 <211> LENGTH: 57
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Description of Artifical Sequence: MYOS 5 peptide coding
sequence,
232        Figure 4
234 <220> FEATURE:
235 <221> NAME/KEY: CDS
236 <222> LOCATION: (1)..(57)
238 <400> SEQUENCE: 7
239 gga tcc ttc gaa gct ttt ggt tgg gac tgg atc att gca ccg aaa cgt    48
240 Gly Ser Phe Glu Ala Phe Gly Trp Asp Trp Ile Ile Ala Pro Lys Arg
241   1            5               10               15
243 tat aga tct                                                        57
244 Tyr Arg Ser
247 <210> SEQ ID NO: 8
248 <211> LENGTH: 19
249 <212> TYPE: PRT
250 <213> ORGANISM: Artificial Sequence
252 <220> FEATURE:
253 <223> OTHER INFORMATION: Description of Artifical Sequence: MYOS 5 peptide coding
sequence,
254        Figure 4
256 <400> SEQUENCE: 8
257 Gly Ser Phe Glu Ala Phe Gly Trp Asp Trp Ile Ile Ala Pro Lys Arg
258   1            5               10               15
260 Tyr Arg Ser
264 <210> SEQ ID NO: 9
265 <211> LENGTH: 54
266 <212> TYPE: DNA
267 <213> ORGANISM: Artificial Sequence
269 <220> FEATURE:
270 <223> OTHER INFORMATION: Description of Artificial Sequence: MYOS 7 peptide coding
sequence,
271        Figure 5
273 <220> FEATURE:
274 <221> NAME/KEY: CDS
275 <222> LOCATION: (1)..(54)
277 <400> SEQUENCE: 9
278 gga tcc aaa cgt tat aaa gct aac tat tgc tct ggt gaa tgc gaa ttc    48
279 Gly Ser Lys Arg Tyr Lys Ala Asn Tyr Cys Ser Gly Glu Cys Glu Phe
280   1            5               10               15
282 aga tct                                                            54
283 Arg Ser
286 <210> SEQ ID NO: 10
287 <211> LENGTH: 18
288 <212> TYPE: PRT
```

```
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: Description of Artificial Sequence: MYOS 7 peptide coding
sequence,
293        Figure 5
295 <400> SEQUENCE: 10
296 Gly Ser Lys Arg Tyr Lys Ala Asn Tyr Cys Ser Gly Glu Cys Glu Phe
297   1               5                  10                  15
299 Arg Ser
303 <210> SEQ ID NO: 11
304 <211> LENGTH: 72
305 <212> TYPE: DNA
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: Description of Artificial Sequence: MYOS 9 peptide coding
sequence,
310        Figure 6
312 <220> FEATURE:
313 <221> NAME/KEY: CDS
314 <222> LOCATION: (1)..(72)
316 <400> SEQUENCE: 11
317 gga tcc gaa ttc gtt ttc ctg cag aaa tat ccg cat acc cat ctg gtt    48
318 Gly Ser Glu Phe Val Phe Leu Gln Lys Tyr Pro His Thr His Leu Val
319   1               5                  10                  15
321 cat cag gct aac ccg cgt aga tct                                     72
322 His Gln Ala Asn Pro Arg Arg Ser
323              20
326 <210> SEQ ID NO: 12
327 <211> LENGTH: 24
328 <212> TYPE: PRT
329 <213> ORGANISM: Artificial Sequence
331 <220> FEATURE:
332 <223> OTHER INFORMATION: Description of Artificial Sequence: MYOS 9 peptide coding
sequence,
333        Figure 6
335 <400> SEQUENCE: 12
336 Gly Ser Glu Phe Val Phe Leu Gln Lys Tyr Pro His Thr His Leu Val
337   1               5                  10                  15
339 His Gln Ala Asn Pro Arg Arg Ser
340              20
343 <210> SEQ ID NO: 13
344 <211> LENGTH: 81
345 <212> TYPE: DNA
346 <213> ORGANISM: Artificial Sequence
348 <220> FEATURE:
349 <223> OTHER INFORMATION: Description of Artificial Sequence: MYOS 11 peptide coding
sequence,
350        Figure 7
352 <220> FEATURE:
353 <221> NAME/KEY: CDS
354 <222> LOCATION: (1)..(81)
356 <400> SEQUENCE: 13
357 gga tcc gct ggt ccg tgc tgt tat ccg acc aaa atg tct ccg atc aac    48
```

VERIFICATION SUMMARY DATE: 06/26/2002
PATENT APPLICATION: US/10/074,152 TIME: 09:56:48

Input Set : **A:\seqlist.txt**
Output Set: **N:\CRF3\06262002\J074152.raw**

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date